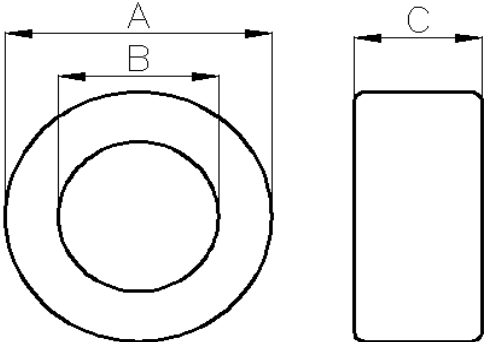


Ferrite Core Specification

Technology Dept.

NCD P/N	HP2F H65/38/25C		Customer		Spec No.			
Cus. part			Customer's P/N		Rev.No.	00	Page	1/1
					Dimensions (mm)			
					A	65.0±1.5		
						(67.5max)		
					B	38.0±1.0		
						(36.2min)		
					C	25.0±0.6		
						(26.4max)		
					smear colour	green		
					Dimensions after coating			
Parameter	I _e =154 mm		A _e =330 mm ²		V _e =50897 mm ³		m≈ 254 g/pcs	
Electric Charateristics	Item	Unit	Spec.		Test Condition		Instrument	
	A _L	nH/N ²	17000±30%		10kHz,0.1V,10Ts,23±2℃		HP4284A or eq.	
	A _L	nH/N ²	13600min		100kHz,0.1V,10Ts,23±2℃		HP4284A or eq.	
	Voltage resistance		2000VDC		Leak inductance 1mA,60s		MS2670 or eq.	
Appearance	Item		Content					
	Clean		Appearance must be clean.No powder accretes and watermark					
	Burr		Any blighting burr was not allow existed.					
	Crack		No crack and scar affect using					
	Chips		dia.≤2.0mm ² ,2part max.					
	Coating		There shall be no peeling coating					
Marking	(No Marking)							
Packing		Material	Quantity	Unit	Marks			Label
	Inner	I78 Styrofoam	12	Pcs				
	Outer	N400*300*230	60	Pcs				
Test Rule	According to GB2828. Once natural project for sampling.(II)Dimensions:AQL=1.0Capability:AQL=0.65							
Customer Affirm	Customer Affirm					Design	Check	Appr.
						Date	2023-12-14	



MAANSHAN NEW CONDA MAGNETIC INDUSTRIAL CO.,LTD.

材料特性 MATERIAL CHARACTERISTICS

HP2F材料特性 HP2F Material Characteristics				
特性Characteristics	符号Symbol		单位Unit	数值Value
初始磁导率 Initial permeability	μ_i		—	7000±25%
相对损耗因数 Relative loss factor	$\tan\delta/\mu_i$		$\times 10^{-6}$	<7 (10KHz)
饱和磁通密度 aturation flux density	Bs 1200A/m	25℃	mT	400
剩磁* Remanence	Br		mT	100
矫顽力* coercivity	Hc		A/m	6
减落因数 Disaccommodation factor	DF		$\times 10^{-6}$	<3
居里温度 Curie temperature	Tc		℃	≥130
密度* Density	d		kg/m ³ ×10 ³	4.9

1A/m=4π×10-3Oe, 1mT=10Gauss

注：1. 如无说明，各项数值均在室温下用Φ25×Φ15×10环型磁芯测得。
The values were obtained with toroidal core Φ25×Φ15×10 at 25±2℃ unless otherwise specified

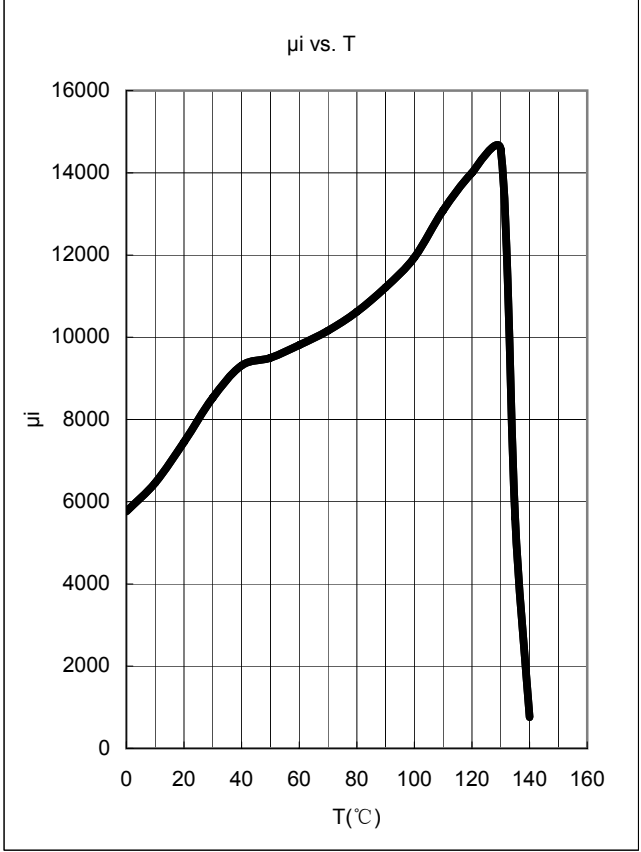
2.典型值 Typical values

材料特性 MATERIAL CHARACTERISTICS

● 高磁导率铁氧体材料 HP2F High permeability ferrite materials HP2F

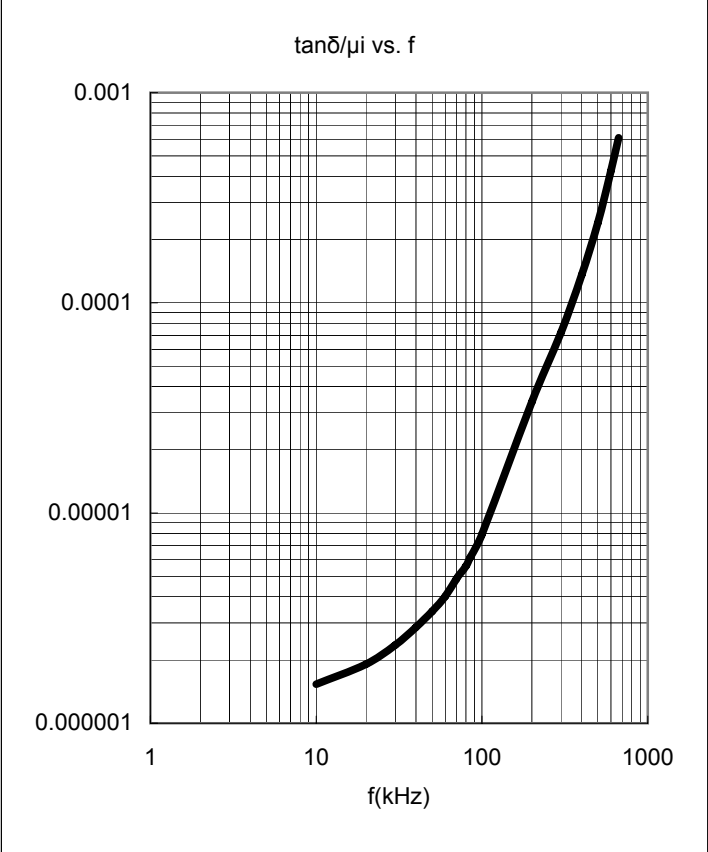
● 起始磁导率与温度关系

Initial permeability μ_i vs.temperature T



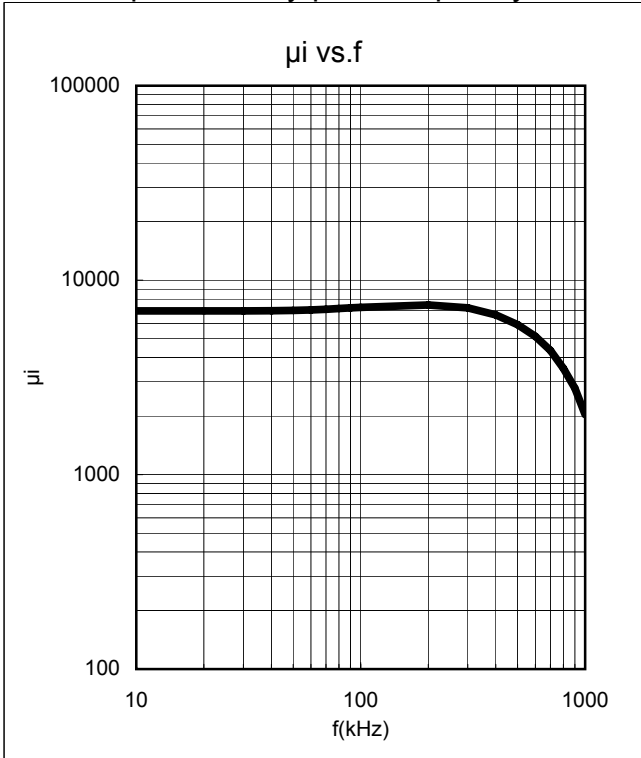
● 相对损耗因数与频率关系

Relative loss factor $\tan\delta/\mu_i$ vs. frequency f



● 起始磁导率与频率关系

Initial permeability μ_i vs.frequency f



● 阻抗与频率关系

$Z \cdot C1/N^2$ vs. frequency f

